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LAHIVE & COCKFIELD, LLP. 28 STATE STREET BOSTON, MA 02109			THANGAVELU, KANDASAMY	
			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/517,952

Applicant(s)

CRITZ ET AL.

Examiner

Kandasamy Thangavelu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-20,22-36 and 38-53 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-20,22-36 and 38-53 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 July 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

DETAILED ACTION

1. This communication is in response to the Applicants' Amendment dated September 19, 2005. Claims 1-2, 4-20, 22-36 and 38-53 of the application are pending. This office action is made non-final in response to the request for continued examination.

Claim Objections

2. The following is a quotation of 37 C.F.R § 1.75 (d)(1):

The claim or claims must conform to the invention as set forth in the remainder of the specification and terms and phrases in the claims must find clear support or antecedent basis in the description so that the meaning of the terms in the claims may be ascertainable by reference to the description.

3. Claims 19-34 are objected to because of the following informalities:

In amended Claim 19, Lines 7-9, "at least one of the reporting components defines an operation for bi-directional communicate with a concurrent simulation of a model" appears to be incorrect and it appears that it should be "at least one of the reporting components defines an operation for bi-directional communication with a concurrent simulation of a model".

Claims objected to but not specifically addressed are objected to based on their dependency to an objected claim.

Appropriate corrections are required.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

5. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

6. Claims 1-2, 4-9, 11-20, 22-27, 29-36, 38-43 and 45-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Young et al.** (ACM, 2000) in view of **Weitz** (IEEE, 1998), and further in view of **Lannert et al.** (U.S. Patent 6,101,489).

6.1 **Young et al.** teaches knowledge based electronic information and documentation system. Specifically, as per Claim 35, **Young et al.** teaches a system comprising a technical computing

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environment and a report generator executing within an operating environment provided by a computer (Page 280, CL1, Para 1; Page 280, CL2, Para 1 and 2); and

the reporting components being configurable to define one or more operations to perform within a technical computing environment (Page 280, CL1, Para 1, L1-3 and 13-19; Page 281, CL1, Para 3, L2 to Para 4, L7; Page 281, CL1, Para 7, L1-7).

Young et al. teaches that the report generator defines a set of reporting components that can be assembled to form a report (Page 280, CL1, Para 1, L11-16); and that the report generator includes a generation engine to generate a report from the processing of the reporting components to initiate the reporting components to perform the one or more operations configured by the reporting components (Page 280, CL1, Para 1, L13-19; Page 280, CL2, Para 1, L5-12; Page 281, CL1, Para 7, L1-7). **Young et al.** does not expressly teach the report generator defining a set of reporting components that can be assembled to form a report template; and that the report generator includes a generation engine to generate a report from the processing of the reporting components of the report template. **Weitz** teaches the report generator defining a set of reporting components that can be assembled to form a report template (Page 3, Col 2, Para 4; Page 4, Col 1, Section 4.2.1); and that the report generator includes a generation engine to generate a report from the processing of the reporting components of the report template (Page 3, Col 2, Para 4; Page 4, Col 1, Section 4.2.1), as that facilitates selecting document instances or parts of them and defining document processing operations using the logical tree structure of the document (Page 3, Col 2, Para 4). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of

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Weitz that included the report generator defining a set of reporting components that can be assembled to form a report template; and that the report generator including a generation engine to generate a report from the processing of the reporting components of the report template. The artisan would have been motivated because that would facilitate selecting document instances or parts of them and defining document processing operations using the logical tree structure of the document.

Young et al. teaches a system comprising a technical computing environment and a report generator executing within an operating environment provided by a computing device (Page 280, CL1, Para 1; Page 280, CL2, Para 1 and 2), as that allows reports to be generated from the instances created by the run of the system (Page 280, CL1, Para 1, L15-16). **Young et al.** teaches at least one of the reporting components configured to define an operation to bi-directionally communicate with a model building technical computing environment (Page 281, CL1, Para 3, L1 to Para 4, L5; SciNapse implemented in Mathematica; the Mathematica has two parts- kernel and Mathematica Notebooks; Kernel has a large set of functions (It is inherent that the kernel functions are used for simulation); Mathematica Notebooks provide communication between the user and the kernel; the notebooks have document writing capabilities; the author has control over how the text is evaluated by the kernel; Page 280, CL1, Para 1, L5-7 and L13-19; the reports are generated by the instances created by a run of the system; Page 280, CL2, Para 1, L5-12; instances are created by the system while performing the tasks), as that allows automatic document production and producing different kinds of documents from the same information (Page 280, CL2, Para 2, L1-3).

Young et al. does not expressly teach a system comprising a technical computing environment, a model simulator and a report generator executing within an operating environment provided by a computing device; and at least one of the reporting components defines an operation for bi-directional communication with a concurrent simulation of a model.

Lannert et al. teaches a system comprising a technical computing environment and a model simulator executing within an operating environment provided by a computing device (CL11, L24-38; Fig. 2; Fig. 47; CL93, L47-64); and at least one of the reporting components defines an operation for bi-directional communication with a concurrent simulation of a model (CL11, L24-38; Fig. 2; Fig. 47; CL93, L47-64; Passing inputs to the simulation and receiving outputs from the simulation; CL94, L17-18; CL94, L23-25; CL94, L38-40; CL94, L55-60; the spread sheets support all simulation models; the spread sheets make calculations on all time interval data that is received from the system dynamics model, which allows the ability to show trends; the system dynamics model generates simulation results over time, based on the parameters passed into it; when the system dynamics model runs, the range of data received over time can be used to create trend graphs), as that allows the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation (CL11, L25-27). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to combine the system of **Young et al.** including a system comprising a technical computing environment and a report generator executing within an operating environment provided by a computing device; and at least one of the reporting components configured to define an operation to bi-directionally communicate with a technical computing environment with the system of **Lannert et al.** that included a technical computing environment and a model simulator executing within an

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operating environment provided by a computing device; and interface components configured to define an operation for bi-directional communication with a concurrent simulation of a model.

The artisan would have been motivated because that would allow reports to be generated from the instances created by the run of the simulation while allowing the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation.

6.2 As per Claim 36, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35. **Young et al.** also teaches that the set of reporting components includes defining flow control components that control an order for processing the reporting component (Page 282, CL1, Para 7 to Page 282, CL2, Para 3; Page 284, CL1, Para 6 to CL2, Para 2).

6.3 As per Claim 38, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35. **Young et al.** teaches at least one of the reporting components configured to define an operation to bi-directionally communicate with a model building technical computing environment (Page 281, CL1, Para 3, L1 to Para 4, L5; SciNapse implemented in Mathematica; the Mathematica has two parts- kernel and Mathematica Notebooks; Kernel has a large set of functions (It is inherent that the kernel functions are used for simulation); Mathematica Notebooks provide communication between the user and the kernel (It is inherent that the communication is provided by passing command, parameters and initial conditions to the kernel); the notebooks have document writing capabilities; the author has control over how the text is evaluated by the kernel; Page 280, CL1, Para 1, L5-7 and L13-19; the reports are generated by the instances created by a run of the system; Page 280, CL2, Para 1, L5-12; instances are created by the

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system while performing the tasks), as that allows automatic document production and producing different kinds of documents from the same information (Page 280, CL2, Para 2, L1-3). **Young et al.** does not expressly teach that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to modify one of an operational parameters and an initial condition of the simulation of the model. **Lannert et al.** teaches that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to modify one of an operational parameters and an initial condition of the simulation of the model (CL11, L24-38; Fig. 2; Fig. 47; CL93, L47-64; Passing inputs to the simulation and receiving outputs from the simulation; CL94, L17-18; CL94, L23-25; CL94, L38-40; CL94, L55-60; the spread sheets support all simulation models; the spread sheets make calculations on all time interval data that is received from the system dynamics model, which allows the ability to show trends; the system dynamics model generates simulation results over time, based on the parameters passed into it (the parameters could include commands and initial conditions); when the system dynamics model runs, the range of data received over time can be used to create trend graphs), as that allows the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation (CL11, L25-27) and as per **Young et al.**, automatic document production and producing different kinds of documents from the same information (Page 280, CL2, Para 2, L1-3); and generating reports from the instances created by a run of the simulation system (Page 280, CL1, Para 1, L15-16). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Lannert et al.** that included

the generation engine initiating one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to modify one of an operational parameters and an initial condition of the simulation of the model. The artisan would have been motivated because that would allow the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation and generating reports from the instances created by a run of the simulation system and automatic document production and producing different kinds of documents from the same information.

6.4 As per Claim 39, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35. **Young et al.** does not expressly teach that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to reconfigure the model by adding or removing a functional block from the model. **Lannert et al.** teaches that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to reconfigure the model by adding or removing a functional block from the model (CL11, L25-27; CL26, L3-10; CL89, L54-57), as that allows the user to modify the designs and interact with the simulation thus enabling rigorous testing prior to application construction (CL26, L11-23) and as per **Young et al.**, generating reports from the instances created by a run of the simulation system (Page 280, CL1, Para 1, L15-16). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Lannert et al.** that included the generation engine initiates one of the reporting components configured to perform the operation of issuing

commands to the computing environment in order to reconfigure the model by adding or removing a functional block from the model. The artisan would have been motivated because that would allow the user to modify the designs and interact with the simulation thus enabling rigorous testing prior to application construction and generating reports from the instances created by a run of the simulation system.

6.5 As per Claim 40, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35. **Young et al.** does not expressly teach that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to extract data from a calculation workspace of the computing environment. **Lannert et al.** teaches that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to extract data from a calculation workspace of the computing environment (CL11, L24-38; Fig. 2; Fig. 47; CL93, L47-64; Passing inputs to the simulation and receiving outputs from the simulation; CL94, L17-18; CL94, L23-25; CL94, L38-40; CL94, L55-60; the spread sheets support all simulation models; the spread sheets make calculations on all time interval data that is received from the system dynamics model, which allows the ability to show trends; the system dynamics model generates simulation results over time, based on the parameters passed into it (the parameters could include commands and initial conditions); when the system dynamics model runs, the range of data received over time can be used to create trend graphs), as that allows the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation (CL 11, L25-27) and as per **Young et al.**, generating

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reports from the instances created by a run of the simulation system (Page 280, CL1, Para 1, L15-16). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Lannert et al.** that included the generation engine initiating one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to extract data from a calculation workspace of the computing environment. The artisan would have been motivated because that would allow the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation and generating reports from the instances created by a run of the simulation system.

6.6 As per Claim 41, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35.

Young et al. does not expressly teach that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to evaluate expressions defined within the computing environment.

Lannert et al. teaches that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to evaluate expressions defined within the computing environment (CL11, L29-33 and L56-58; CL94, L22-27), as that allows the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation (CL11, L25-27) and as per **Young et al.**, generating reports from the instances created by a run of the simulation system (Page 280, CL1, Para 1, L15-16). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Lannert et al.**

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that included the generation engine initiating one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to requesting data from the model simulator. The artisan would have been motivated because that would allow the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation and generating reports from the instances created by a run of the simulation system.

6.7 As per Claim 42, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35. **Young et al.** does not expressly teach that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to requesting data from the model simulator. **Lannert et al.** teaches that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to requesting data from the model simulator (CL11, L24-38; Fig. 2; Fig. 47; CL93, L47-64; Passing inputs to the simulation and receiving outputs from the simulation; CL94, L17-18; CL94, L23-25; CL94, L38-40; CL94, L55-60; the spread sheets support all simulation models; the spread sheets make calculations on all time interval data that is received from the system dynamics model, which allows the ability to show trends; the system dynamics model generates simulation results over time, based on the parameters passed into it (the parameters could include commands and initial conditions); when the system dynamics model runs, the range of data received over time can be used to create trend graphs), as that allows the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation (Col 11, L25-27) and as per **Young**

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et al., generating reports from the instances created by a run of the simulation system (Page 280, CL1, Para 1, L15-16). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Lannert et al.** that included the generation engine initiating one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to extract data from a calculation workspace of the computing environment. The artisan would have been motivated because that would allow the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation and generating reports from the instances created by a run of the simulation system.

6.8 As per Claim 43, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35. **Young et al.** does not expressly teach that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to request data from a graphics package. **Lannert et al.** teaches that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to request data from a graphics package (CL94, L12-25), as that allows making calculations on the time interval data and show trend graphs (C94, L23-2 and L38-39) and as per **Young et al.**, generating reports from the instances created by a run of the simulation system (Page 280, CL1, Para 1, L15-16). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Lannert et al.** that included the generation engine initiating one of the reporting components configured to perform the operation of issuing

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commands to the computing environment in order to request data from a graphics package. The artisan would have been motivated because that would allow making calculations on the time interval data and show trend graphs and generating reports from the instances created by a run of the simulation system.

6.9 As per Claim 45, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35. **Young et al.** does not expressly teach that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the simulation of the model to advance a current state of the simulation one or more time steps. **Lannert et al.** teaches that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the simulation of the model to advance a current state of the simulation one or more time steps (Fig. 50; CL94, L23-25; CL94, L38-44; CL94, L54-60), as that allows making calculations on the time interval data and show trend graphs (C94, L23-2 and L38-39) and as per **Young et al.**, generating reports from the instances created by a run of the simulation system (Page 280, CL1, Para 1, L15-16). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Lannert et al.** that included the generation engine initiating one of the reporting components configured to perform the operation of issuing commands to the simulation of the model to advance a current state of the simulation one or more time steps. The artisan would have been motivated because that would allow making calculations on the time interval data and show trend graphs and generating reports from the instances created by a run of the simulation system.

6.10 As per Claim 46, **Young et al., Weitz and Lannert et al.** teach the system of Claim 35.

Young et al. also teaches that the generation engine generates the report in an intermediate representation, and wherein the report generator further comprises a transformation engine to transform the intermediate representation into an electronic document according to a user-selected format (Page 280, CL1, Para 1, L10-19; Page 281, CL1, Para 4).

6.11 As per Claim 47, **Young et al., Weitz and Lannert et al.** teach the system of Claim 35.

Young et al. does not expressly teach that the intermediate representation of the report is in one of the following formats: Extensible Markup Language or Standard Generalized Markup Language. **Weitz** teaches that the intermediate representation of the report is in one of the following formats: Extensible Markup Language or Standard Generalized Markup Language (Page 2, CL1, Para 2 and Para 3; Page 2, CL2, Para 4), as that facilitates defining the logical structure of the document using a tree structure thus facilitating efficient automated document retrieval and processing (Page 2, CL1, Para 2; Page 2, CL2, Para 4). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Weitz** that included the intermediate representation of the report being in one of the following formats: Extensible Markup Language or Standard Generalized Markup Language. The artisan would have been motivated because that would facilitate defining the logical structure of the document using a tree structure thus facilitating efficient automated document retrieval and processing.

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6.12 As per Claim 48, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35.

Young et al. does not expressly teach that the generation engine formats the report as a function of a state of the simulation. **Lannert et al.** teaches that the generation engine formats the report as a function of a state of the simulation (CL93, L53-64; CL94, L38-39 and L42-44), as that allows updating the reports as the simulation is executed (CL93, L63-64) and facilitates restarting the simulation playing back in time (CL94, L62-63). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Lannert et al.** that included the generation engine formatting the report as a function of a state of the simulation. The artisan would have been motivated because that would allow updating the reports as the simulation was executed and facilitate restarting the simulation playing back in time.

6.13 As per Claim 49, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35.

Young et al. does not expressly teach that the generation engine initiates one of the reporting components configured to perform the operation of issuing instructions to the simulation of the model to modify one of an operational parameter and initial condition of the simulation of the model. **Lannert et al.** teaches that the generation engine initiates one of the reporting components configured to perform the operation of issuing instructions to the simulation of the model to modify one of an operational parameter and initial condition of the simulation of the model (CL11, L24-38; Fig. 2; Fig. 47; CL93, L47-64; Passing inputs to the simulation and receiving outputs from the simulation; CL94, L17-18; CL94, L23-25; CL94, L38-40; CL94, L55-60; the spread sheets support all simulation models; the spread sheets make calculations on

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all time interval data that is received from the system dynamics model, which allows the ability to show trends; the system dynamics model generates simulation results over time, based on the parameters passed into it (the parameters could include commands and initial conditions); when the system dynamics model runs, the range of data received over time can be used to create trend graphs), as that allows the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation (CL11, L25-27) and as per **Young et al.**, generating reports from the instances created by a run of the simulation system (Page 280, CL1, Para 1, L15-16). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Lannert et al.** that included the generation engine initiating one of the reporting components configured to perform the operation of issuing instructions to the simulation of the model to modify one of an operational parameter and initial condition of the simulation of the model. The artisan would have been motivated because that would allow the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation and generating reports from the instances created by a run of the simulation system.

6.14 As per Claim 50, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35. **Young et al.** does not expressly teach a user interface by which a designer can hierarchically arrange the reporting elements to form the report template. **Weitz** teaches a user interface by which a designer can hierarchically arrange the reporting elements to form the report template (Page 2, CL2, Para 4; Page3, CL2, Para 4), as that facilitates defining the logical structure of the document using a tree structure thus facilitating efficient automated document retrieval and

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processing (Page 2, CL1, Para 2; Page 2, CL2, Para 4). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Weitz** that included a user interface by which a designer could hierarchically arrange the reporting elements to form the report template. The artisan would have been motivated because that would facilitate defining the logical structure of the document using a tree structure thus facilitating efficient automated document retrieval and processing.

6.15 As per Claim 51, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35. **Young et al.** also teaches that the report generator processes each reporting component according to behavior defined by an ancestor reporting component within a hierarchy of reporting components (Page 280, CL2, Para 2, L4-9; Page 282, CL1, Para 7 to CL2, Para 1).

6.16 As per Claim 52, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35. **Young et al.** also teaches that the report generator defines the reporting components using classes, attributes, rules of inheritance and instantiation (Page 280, Col 2, Para 2). **Young et al.** does not expressly teach that the report generator defines the reporting components according to an object-oriented programming language. **Lannert et al.** teaches that the report generator defines the reporting components according to an object-oriented programming language (Col 5, Lines 24-27; Col 5, Lines 45-46; Col 9, Line 58 to Col 10, Line 11), as that allows significant reductions in the design and development effort of the software involved in automatic generation of the documents (Col 9, Lines 56-58). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system

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of **Lannert et al.** that included the report generator defining the reporting components according to an object-oriented programming language. The artisan would have been motivated because that would allow significant reductions in the design and development effort of the software involved in automatic generation of the documents.

6.17 As per Claims 1-2, 4-9, 11-17 and 19-20, 22-27, 29-33, these are rejected based on the same reasoning as Claims 35-36, 38-43, 45-48 and 50-52, supra. Claims 1-2, 4-9, 11-17 and 19-20, 22-27, 29-33 are method and computer program implementing the methods reciting the same limitations as Claims 35-36, 38-43, 45-48 and 50-52, as taught throughout by **Young et al.**, **Weitz** and **Lannert et al.**

6.18 As per Claim 18, **Young et al.**, **Weitz** and **Lannert et al.** teach the method of Claim 1. **Young et al.** does not expressly teach that the report template refers to a second report template, and further wherein the reporting components are processed as a function of results from processing the second report template. **Weitz** teaches that the report template refers to a second report template, and further wherein the reporting components are processed as a function of results from processing the second report template (Page 2, CL2, Para 4; Page 3, CL2, Para 4), as that facilitates utilization of the logical organization of the documents as tree structure for efficient automated document retrieval and processing (Page 2, CL1, Para 2 and Page 2, CL2, Para 4). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the method of **Young et al.** with the method of **Weitz** that included the report template referring to a second report template, and the reporting components being

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processed as a function of results from processing the second report template. The artisan would have been motivated because that would facilitate utilization of the logical organization of the documents as tree structure for efficient automated document retrieval and processing.

6.19 As per Claim 34, **Young et al.**, **Weitz** and **Lannert et al.** teach the computer program product of Claim 19. **Young et al.** does not expressly teach that the report generation computer program provides that the report template can reference one or more other report templates in sequence, and further wherein the results of processing one of the report templates is a function of the simulation results from processing report templates earlier in the sequence. **Weitz** teaches that the report generation computer program provides that the report template can reference one or more other report templates in sequence, and further wherein the results of processing one of the report templates is a function of the simulation results from processing report templates earlier in the sequence (Page 2, CL2, Para 4; Page 3, CL2, Para 4), as that facilitates utilization of the logical organization of the documents as tree structure for efficient automated document retrieval and processing (Page 2, CL1, Para 2 and Page 2, CL2, Para 4). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the computer program product of **Young et al.** with the computer program product of **Weitz** that included the report generation computer program providing that the report template could reference one or more other report templates in sequence, and further wherein the results of processing one of the report templates was a function of the simulation results from processing report templates earlier in the sequence. The artisan would have been motivated because that

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would facilitate utilization of the logical organization of the documents as tree structure for efficient automated document retrieval and processing.

6.20 As per Claim 53, **Young et al.** teaches a method for generating a report (Page 280, CL1, Para 1, L1-10); comprising:

the reporting components being configurable to define one or more operations to perform within a technical computing environment (Page 280, CL1, Para 1, L1-3 and 13-19; Page 281, CL1, Para 3, L2 to Para 4, L7; Page 281, CL1, Para 7, L1-7).

Young et al. teaches defining a set of reporting components that can be assembled to form a report (Page 280, CL1, Para 1, L11-16); and generating a report from processing the reporting components of the report to initiate the reporting components to perform the one or more operations configured by the reporting components (Page 280, CL1, Para 1, L13-19; Page 280, CL2, Para 1, L5-12; Page 281, CL1, Para 7, L1-7). **Young et al.** does not expressly teach defining a set of reporting components that can be assembled to form a report template; and generating a report from processing the reporting components of the report template. **Weitz** teaches defining a set of reporting components that can be assembled to form a report template (Page 3, Col 2, Para 4; Page 4, Col 1, Section 4.2.1); and generating a report from processing the reporting components of the report template (Page 3, Col 2, Para 4; Page 4, Col 1, Section 4.2.1), as that facilitates selecting document instances or parts of them and defining document processing operations using the logical tree structure of the document (Page 3, Col 2, Para 4). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to

modify the method of **Young et al.** with the method of **Weitz** that included defining a set of reporting components that could be assembled to form a report template; and generating a report from processing the reporting components of the report template. The artisan would have been motivated because that would facilitate selecting document instances or parts of them and defining document processing operations using the logical tree structure of the document.

Young et al. teaches initiating, during generating the report, at least one reporting component to bi-directionally communicate with a concurrent technical computing environment (Page 281, CL1, Para 3, L1 to Para 4, L5; SciNapse implemented in Mathematica; the Mathematica has two parts- kernel and Mathematica Notebooks; Kernel has a large set of functions (It is inherent that the kernel functions are used for simulation); Mathematica Notebooks provide communication between the user and the kernel; the notebooks have document writing capabilities; the author has control over how the text is evaluated by the kernel; Page 280, CL1, Para 1, L5-7 and L13-19; the reports are generated by the instances created by a run of the system; Page 280, CL2, Para 1, L5-12; instances are created by the system while performing the tasks), as that allows automatic document production and producing different kinds of documents from the same information (Page 280, CL2, Para 2, L1-3).). **Young et al.** does not expressly teach initiating, during generation of the report, at least one reporting component to bi-directionally communicate with a concurrent simulation of a model. **Lannert et al.** teaches initiating, during generation of the report, at least one reporting component to bi-directionally communicate with a concurrent simulation of a model (CL11, L24-38; Fig. 2; Fig. 47; CL93, L47-64; Passing inputs to the simulation and receiving outputs from the simulation; CL94, L17-18; CL94, L23-25; CL94, L38-40; CL94, L55-60; the spread sheets support all

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simulation models; the spread sheets make calculations on all time interval data that is received from the system dynamics model, which allows the ability to show trends; the system dynamics model generates simulation results over time, based on the parameters passed into it; when the system dynamics model runs, the range of data received over time can be used to create trend graphs), as that allows the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation (CL11, L25-27). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to combine the method of **Young et al.** including initiating, during generating the report, at least one reporting component to bi-directionally communicate with a concurrent technical computing environment with the method of **Lannert et al.** that included initiating, during generation of the report, at least one reporting component to bi-directionally communicate with a concurrent simulation of a model. The artisan would have been motivated because that would allow automatic document production and producing different kinds of documents from the same information; and reports to be generated from the from instances created by the run of the simulation while allowing the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation.

7. Claims 10, 28 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Young et al** (ACM, 2000) in view of **Weitz** (IEEE, 1998), and further in view of **Lannert et al.** (U.S. Patent 6,101,489) and **Skidmore et al.** (IEEE, 1998).

7.1 As per Claim 44, **Young et al.**, **Weitz** and **Lannert et al.** teach the system of Claim 35. **Young et al.** teaches at least one of the reporting components configured to define an operation

to bi-directionally communicate with a model building technical computing environment (Page 281, CL1, Para 3, L1 to Para 4, L5; SciNapse implemented in Mathematica; the Mathematica has two parts- kernel and Mathematica Notebooks; Kernel has a large set of functions (It is inherent that the kernel functions are used for simulation); Mathematica Notebooks provide communication between the user and the kernel (It is inherent that the communication is provided by passing command, parameters and initial conditions to the kernel); the notebooks have document writing capabilities; the author has control over how the text is evaluated by the kernel; Page 280, CL1, Para 1, L5-7 and L13-19; the reports are generated by the instances created by a run of the system; Page 280, CL2, Para 1, L5-12; instances are created by the system while performing the tasks), as that allows automatic document production and producing different kinds of documents from the same information (Page 280, CL2, Para 2, L1-3).

Lannert et al. teaches that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to modify one of an operational parameters and an initial condition of the simulation of the model (CL11, L24-38; Fig. 2; Fig. 47; CL93, L47-64; Passing inputs to the simulation and receiving outputs from the simulation; CL94, L17-18; CL94, L23-25; CL94, L38-40; CL94, L55-60; the spread sheets support all simulation models; the spread sheets make calculations on all time interval data that is received from the system dynamics model, which allows the ability to show trends; the system dynamics model generates simulation results over time, based on the parameters passed into it (the parameters could include commands and initial conditions); when the system dynamics model runs, the range of data received over time can be used to create trend graphs), as that allows the user to control the simulation by passing inputs

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into the simulation and receiving outputs from the simulation (CL11, L25-27) and as per **Young et al.**, automatic document production and producing different kinds of documents from the same information (Page 280, CL2, Para 2, L1-3); and generating reports from the instances created by a run of the simulation system (Page 280, CL1, Para 1, L15-16).

Young et al. does not expressly teach that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to simulate the model. **Skidmore et al.** teaches that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to simulate the model (Page 6, Para 3), as that allows the user to control execution and recording of the computations in the simulation model (Page 5, Para 5) and as per **Young et al.**, generating reports from the instances created by a run of the simulation system (Page 280, CL1, Para 1, L15-16). It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Skidmore et al.** that included the generation engine initiating one of the reporting components configured to perform the operation of issuing commands to simulate the model. The artisan would have been motivated because that would allow the user to control execution and recording of the computations in the simulation model and generating reports from the instances created by a run of the simulation system.

7.2 As per Claims 10 and 28, it is rejected based on the same reasoning as Claim 44, supra. Claims 10 and 28 are method and computer program claims reciting the same limitations as Claim 10, as taught throughout by **Young et al.**, **Weitz, Lannert et al.** and **Skidmore et al.**

Response to Amendments

8. Applicants' arguments filed on September 19, 2005 have been fully considered. Applicants' arguments with respect to claim rejections under 35 USC 103 (a) are not persuasive.

9. As per the Applicants' arguments, the Applicants' attention is requested to the corresponding claim rejections. In addition, the following explanation is provided to further explain the examiner's position.

9.1 As per the Applicants' argument that "the combination of Young, Weitz, and Lannert does not teach or suggest each and every element of independent claims 1, 19, 35, and 53; the combination of references does not teach or suggest the limitation of bi-directional communication between a reporting component and a concurrent simulation of a model; the Examiner suggests that it would have been obvious to one of ordinary skill in the art "to combine the system of Young et al. including at least one of the reporting components configured to define an operation to bi-directionally communicate with a technical computing environment with the system of Lannert et al. that included interface components configured to define an operation to bi-directionally communicate with a simulation of a model during a t execution of the simulation" to achieve the claim invention of bi-directional communication between at least one reporting component and a simulation of a model; applicants respectfully disagree; there is

error in the Examiner's logic to conclude that the combination of Young and Lannert would result in the teaching or suggestion of bi-directional communication between a reporting component and a simulation of a model; if Young teaches bi-directional communication between a reporting component and a technical computing environment and Lannert teaches bi-directional communication between a user interface component and a simulation of a model, the combination of Young and Lannert does not yield bi-directional communication between a reporting component and a simulation of a model; the pending claims require the reporting components being configurable to define one or more operations to perform within a technical computing environment; applicants respectfully submit that there are many ways to generate a report, and a reporting component is not an inherent element or feature in generating a report; furthermore, Applicants respectfully submit that the report generator of Young does not bi-directionally communicate with the technical environment; nowhere in the Young reference does the report query the technical environment for information; applicants respectfully submit that Young merely teaches generation of reports from outputs of a run of the system; nowhere does Weitz mention simulation of a model; therefore, Weitz also does not teach or suggest bi-directional communication between a reporting component and a concurrent simulation of a model", the examiner respectfully disagrees.

Young et al. teaches a system comprising a technical computing environment and a report generator executing within an operating environment provided by a computing device (Page 280, CL1, Para 1; Page 280, CL2, Para 1 and 2), as that allows reports to be generated from the instances created by the run of the system (Page 280, CL1, Para 1, L15-16). **Young et al.** teaches at least one of the reporting components configured to define an operation to

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bi-directionally communicate with a model building technical computing environment (Page 281, CL1, Para 3, L1 to Para 4, L5; SciNapse implemented in Mathematica; the Mathematica has two parts- kernel and Mathematica Notebooks; Kernel has a large set of functions (It is inherent that the kernel functions are used for simulation); Mathematica Notebooks provide communication between the user and the kernel; the notebooks have document writing capabilities; the author has control over how the text is evaluated by the kernel; Page 280, CL1, Para 1, L5-7 and L13-19; the reports are generated by the instances created by a run of the system; Page 280, CL2, Para 1, L5-12; instances are created by the system while performing the tasks), as that allows automatic document production and producing different kinds of documents from the same information (Page 280, CL2, Para 2, L1-3).

Lannert et al. teaches a system comprising a technical computing environment and a model simulator executing within an operating environment provided by a computing device (CL11, L24-38; Fig. 2; Fig. 47; CL93, L47-64); and at least one of the reporting components defines an operation for bi-directional communication with a concurrent simulation of a model (CL11, L24-38; Fig. 2; Fig. 47; CL93, L47-64; Passing inputs to the simulation and receiving outputs from the simulation; CL94, L17-18; CL94, L23-25; CL94, L38-40; CL94, L55-60; the spread sheets support all simulation models; the spread sheets make calculations on all time interval data that is received from the system dynamics model, which allows the ability to show trends; the system dynamics model generates simulation results over time, based on the parameters passed into it; when the system dynamics model runs, the range of data received over time can be used to create trend graphs), as that allows the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation (CL11, L25-27). It

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would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to combine the system of **Young et al.** including a system comprising a technical computing environment and a report generator executing within an operating environment provided by a computing device; and at least one of the reporting components configured to define an operation to bi-directionally communicate with a technical computing environment with the system of **Lannert et al.** that included a technical computing environment and a model simulator executing within an operating environment provided by a computing device; and interface components configured to define an operation for bi-directional communication with a concurrent simulation of a model. The artisan would have been motivated because that would allow reports to be generated from the instances created by the run of the simulation while allowing the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation.

9.2 As per the Applicants' argument that "Young only discusses generation of reports and does not teach or suggest reporting components, not to mention reporting component that can be assembled to form a template, as required by independent claims 1, 18, 35, and 53; there is no similarity between a reporting component and a user interface component in Lannert; although Lannert does mention generation of reports, Lannert does not teach or suggest reporting components that may be used to form a template, as required by the pending claims", the examiner respectfully disagrees.

Weitz teaches the report generator defining a set of reporting components that can be assembled to form a report template (Page 3, Col 2, Para 4; Page 4, Col 1, Section 4.2.1); and that the report generator includes a generation engine to generate a report from the processing of the reporting components of the report template (Page 3, Col 2, Para 4; Page 4, Col 1, Section 4.2.1), as that facilitates selecting document instances or parts of them and defining document processing operations using the logical tree structure of the document (Page 3, Col 2, Para 4).

9.3 As per the Applicants' argument that "dependent claims 4, 22, and 38 include the limitation a reporting component configured to perform the operation of issuing instructions to the computing environment; Lannert merely, teaches a user may enter inputs to the user interface to guide a simulation; However, nowhere does Lannert teach or suggest a reporting component issues instructions to a computing environment; furthermore, the combination of Young, Lannert, and Weitz also does not teach or suggest a reporting component issuing instructions to a computing environment", the examiner respectfully disagrees.

Young et al. teaches at least one of the reporting components configured to define an operation to bi-directionally communicate with a model building technical computing environment (Page 281, CL1, Para 3, L1 to Para 4, L5; SciNapse implemented in Mathematica; the Mathematica has two parts- kernel and Mathematica Notebooks; Kernel has a large set of functions (It is inherent that the kernel functions are used for simulation); Mathematica Notebooks provide communication between the user and the kernel (It is inherent that the communication is provided by passing command, parameters and initial conditions to the

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kernel); the notebooks have document writing capabilities; the author has control over how the text is evaluated by the kernel; Page 280, CL1, Para 1, L5-7 and L13-19; the reports are generated by the instances created by a run of the system; Page 280, CL2, Para 1, L5-12; instances are created by the system while performing the tasks), as that allows automatic document production and producing different kinds of documents from the same information (Page 280, CL2, Para 2, L1-3).

Young et al. does not expressly teach that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to modify one of an operational parameters and an initial condition of the simulation of the model. **Lannert et al.** teaches that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to modify one of an operational parameters and an initial condition of the simulation of the model (CL11, L24-38; Fig. 2; Fig. 47; CL93, L47-64; Passing inputs to the simulation and receiving outputs from the simulation; CL94, L17-18; CL94, L23-25; CL94, L38-40; CL94, L55-60; the spread sheets support all simulation models; the spread sheets make calculations on all time interval data that is received from the system dynamics model, which allows the ability to show trends; the system dynamics model generates simulation results over time, based on the parameters passed into it (the parameters could include commands and initial conditions); when the system dynamics model runs, the range of data received over time can be used to create trend graphs), as that allows the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation (CL11, L25-27) and as per **Young et al.**, automatic document production and

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producing different kinds of documents from the same information (Page 280, CL2, Para 2, L1-3); and generating reports from the instances created by a run of the simulation system (Page 280, CL1, Para 1, L15-16).

It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Lannert et al.** that included the generation engine initiating one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to modify one of an operational parameters and an initial condition of the simulation of the model. The artisan would have been motivated because that would allow the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation and generating reports from the instances created by a run of the simulation system and automatic document production and producing different kinds of documents from the same information.

9.4 As per the Applicants' argument that "dependent claims 17, 33, and 52 include the limitation that the reporting components are defined according to an object-oriented programming language; The Examiner speculated that Lannert teaches report components are defined according to an object-orientated programming language; however, the cited sections merely discuss the possibility of using object oriented programming language to design the educational system that provides a user with a simulated business environment; although reports may be generated to review a user's performance, nowhere does Lannert teach or suggest: the use of reporting components to form a report. Therefore, Applicants respectfully submit that Lannert

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does not teach or suggest that the reporting components are defined according to an object-orientated programming language”, the examiner respectfully disagrees.

Young et al. also teaches that the report generator defines the reporting components using classes, attributes, rules of inheritance and instantiation (Page 280, Col 2, Para 2). **Young et al.** does not expressly teach that the report generator defines the reporting components according to an object-oriented programming language. **Lannert et al.** teaches that the report generator defines the reporting components according to an object-oriented programming language (Col 5, Lines 24-27; Col 5, Lines 45-46; Col 9, Line 58 to Col 10, Line 11), as that allows significant reductions in the design and development effort of the software involved in automatic generation of the documents (Col 9, Lines 56-58).

It would have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Lannert et al.** that included the report generator defining the reporting components according to an object-oriented programming language. The artisan would have been motivated because that would allow significant reductions in the design and development effort of the software involved in automatic generation of the documents.

9.5 As per the Applicants' argument that “nowhere does Skidmore discuss anything about bi-directional communication between reporting components and a concurrent simulation of a model; additionally, Applicants respectfully submit that Skidmore does not teach or suggest the limitation that a reporting component configured to perform the operation of issuing commands

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to simulate a model as speculated by the Examiner; the cited section in Skidmore merely discusses an experimental control component that is split into an experiment builder and execution controller, but there is no reporting components or equivalents; there is no motivation for one of ordinary skill to combine Young, Lannert, and Weitz, hence, there is even less motivation for one of ordinary skill to combine a fourth unrelated topic of technology, Skidmore, with Young, Lannert, and Weitz; additionally, Applicants respectfully submit that even if four prior art references may be properly combined to achieve the present invention, one of ordinary skill *in* the art will unlikely find the present invention obvious because of the substantial modification that needs to be made to all of the four prior art references”, the examiner respectfully disagrees.

Young et al. teaches at least one of the reporting components configured to define an operation to bi-directionally communicate with a model building technical computing environment (Page 281, CL1, Para 3, L1 to Para 4, L5; SciNapse implemented in Mathematica; the Mathematica has two parts- kernel and Mathematica Notebooks; Kernel has a large set of functions (It is inherent that the kernel functions are used for simulation); Mathematica Notebooks provide communication between the user and the kernel (It is inherent that the communication is provided by passing command, parameters and initial conditions to the kernel); the notebooks have document writing capabilities; the author has control over how the text is evaluated by the kernel; Page 280, CL1, Para 1, L5-7 and L13-19; the reports are generated by the instances created by a run of the system; Page 280, CL2, Para 1, L5-12; instances are created by the system while performing the tasks), as that allows automatic

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document production and producing different kinds of documents from the same information (Page 280, CL2, Para 2, L1-3).

Lannert et al. teaches that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to the computing environment in order to modify one of an operational parameters and an initial condition of the simulation of the model (CL11, L24-38; Fig. 2; Fig. 47; CL93, L47-64; Passing inputs to the simulation and receiving outputs from the simulation; CL94, L17-18; CL94, L23-25; CL94, L38-40; CL94, L55-60; the spread sheets support all simulation models; the spread sheets make calculations on all time interval data that is received from the system dynamics model, which allows the ability to show trends; the system dynamics model generates simulation results over time, based on the parameters passed into it (the parameters could include commands and initial conditions); when the system dynamics model runs, the range of data received over time can be used to create trend graphs), as that allows the user to control the simulation by passing inputs into the simulation and receiving outputs from the simulation (CL11, L25-27) and as per **Young et al.**, automatic document production and producing different kinds of documents from the same information (Page 280, CL2, Para 2, L1-3); and generating reports from the instances created by a run of the simulation system (Page 280, CL1, Para 1, L15-16).

Skidmore et al. teaches that the generation engine initiates one of the reporting components configured to perform the operation of issuing commands to simulate the model (Page 6, Para 3), as that allows the user to control execution and recording of the computations in the simulation model (Page 5, Para 5) and as per **Young et al.**, generating reports from the instances created by a run of the simulation system (Page 280, CL1, Para 1, L15-16). It would

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have been obvious to one of ordinary skill in the art at the time of Applicants' invention to modify the system of **Young et al.** with the system of **Skidmore et al.** that included the generation engine initiating one of the reporting components configured to perform the operation of issuing commands to simulate the model. The artisan would have been motivated because that would allow the user to control execution and recording of the computations in the simulation model and generating reports from the instances created by a run of the simulation system.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Kandasamy Thangavelu whose telephone number is 571-272-3717. The examiner can normally be reached on Monday through Friday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Picard, can be reached on 571-272-3749. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to TC 2100 Group receptionist: 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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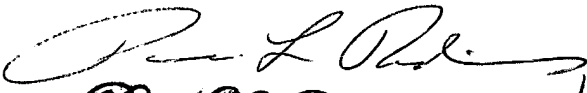
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K. Thangavelu
Art Unit 2123
October 28, 2005


Paul L. Rodriguez 10/28/05
Primary Examiner
Art Unit 2125